



Ricardo De Leon (above) of the Metropolitan Water District of Southern California described the need to prioritize threats to water sources.



### Priorities Recommended New Stakeholder Committee Focuses On Water Security Technologies

Members of the Advanced Monitoring Systems (AMS) Center's new water security stakeholder committee learned about EPA's Environmental Technology Verification (ETV) program, National Homeland Security Research Center (NHSRC), and the AMS Center's objectives at the committee's first meeting on January 14 at Battelle's facilities in Columbus, Ohio. Battelle manages the AMS Center in partnership with EPA.

The first category of water security technologies to be tested—cyanide detectors—was conducted in January (please see the January 2003 issue of *The Monitor*).

The committee members represent the EPA, U.S. Geological Survey, U.S. Army's Center for

Environmental Health Research, U.S. Army's Civil Support Team, U.S. Center for Disease Control, two state departments of health, local water districts, Massachusetts Institute of Technology's Lincoln Laboratory, American Water Works Association, and a water service company.

Their mission is to help the AMS Center identify monitoring technologies that are needed to protect the nation's drinking water supplies and to prioritize such technologies for verification by the AMS Center. They discussed these subjects following five background presentations:

- **Jon Herrmann**, director of the water security group at EPA's NHSRC in Cincinnati, OH, *Water Security Program Overview*

- **Wayne Einfeld**, Sandia National Laboratories, *General Issues Related to Water Security*
- **Ricardo De Leon**, Metropolitan Water District of Southern California, *Prioritization of Threats to Source and Drinking Water*
- **Stanley States**, Pittsburgh Water and Sewer Authority, *Microbiological Screening Methods and*
- **Ryan James**, Battelle, verification test coordinator, *Verification Test of Portable Cyanide Analyzers*.

Stakeholders recommended that the AMS Center consider three technology categories for priority verification testing: rapid toxicity monitors, chip technology/chlorine analyzers, and immunoassay test strips/"smart tickets."



The AMS Center, which is part of the U.S. Environmental Protection Agency's Environmental Technology Verification Program, verifies the performance of technologies that monitor for contaminants and natural species in air, water, and soil. ETV was established to accelerate the implementation of improved environmental technologies through third-party verification testing and reporting of the technologies' performance. The ETV process provides purchasers and permittees with an independent assessment of the technology they are buying or permitting and facilitates multi-state acceptance. For further information, contact Helen Latham at Battelle, 505 King Ave., Columbus, Ohio 43201-2693; Phone 614-424-4062; Fax 614-424-5601; E-mail [lathamh@battelle.org](mailto:lathamh@battelle.org).



ETV and Battelle staff members provided information to representatives from five countries at the Kolkata Arsenic Conference in Calcutta, India.

## ETV, AMS Contribute To India Conference

ETV and Battelle staff members participated with representatives of five countries and the World Health Organization at the Kolkata (Calcutta) Arsenic Conference in December.

About 40 million people from the five countries—India, Bangladesh, Nepal, Myanmar, and Thailand—live in arsenic affected areas.

Representing the ETV program from EPA were Teresa Harten, ETV program director, and staff members Tom Sorg and Jeff Adams, who described the ETV program and responded to questions via video conferencing.

Arun Gavaskar of Battelle attended the conference and presented information about kits to detect arsenic.

The conference attendees were impressed with the ETV's verification testing and reporting principles, which would require the support of their governments, obtaining funds, and determining who would implement the program.

### Air, Water Stakeholder Committees Hold Meetings

January and March were selected for the AMS Center's air and water stakeholder committees' winter meetings. The air stakeholder committee met in Riverside, CA, on January 30-31. The water stakeholder committee will meet in St. Petersburg, FL, on March 26-27.

**Check the Web...To find more information about the ETV program and the AMS Center, go to:**

<http://www.epa.gov/etv>

## Verification Test Updates

**Ammonia continuous emission monitors (CEMs).** Several vendors are expected to participate in the verification of the performance of technologies that detect ammonia "slip" emissions. Testing will take place first at a coal-fired power plant and later at a natural gas-fired plant. The Electric Power Research Institute (EPRI) is collaborating with Battelle on the first test, which will likely be conducted in May and June. Contact Ken Cowen, 614-424-5547 or [cowenk@battelle.org](mailto:cowenk@battelle.org).

**Mercury CEMs.** Five mercury CEMs were tested in a Phase 2 verification test during August and September at the U.S. Department of Energy's Toxic Substances Control Act Incinerator (TSCAI) at Oak Ridge. The data have been analyzed and verification test reports are being drafted. Contact Tom Kelly, 614-424-3495 or [kellyt@battelle.org](mailto:kellyt@battelle.org).

**Multi-parameter water probes.** Two vendors participated in the test conducted in collaboration with the National Oceanic and Atmospheric Administration's (NOAA) Center for Coastal Environmental Health and Biomolecular Research in Charleston, SC. The probes were tested in both salt and fresh water during a three-month field period. Draft reports are

being reviewed. A second test of these technologies is being planned. Contact Jeff Myers, 614-424-7705 or [myersjd@battelle.org](mailto:myersjd@battelle.org).

**Portable cyanide detectors.** The first verification test under the water security monitoring technologies task was completed in January for six cyanide detectors. The verification reports are being drafted for review. Contact Ryan James, 614-424-7954 or [jamesr@battelle.org](mailto:jamesr@battelle.org).

**Portable multi-gas emission analyzers.** One technology was tested, measuring the instrument's capabilities to detect NO/NO<sub>2</sub>, SO<sub>2</sub>, CO, and O<sub>2</sub> in combustion emissions. The final report has been reviewed by peer reviewers and will be sent to EPA representatives for final approval. A second verification test of portable multi-gas emission analyzers is being scheduled. Vendors interested in submitting technologies should contact Jeff Myers, 614-424-7705 or [myersjd@battelle.org](mailto:myersjd@battelle.org).

**Portable water analyzers for arsenic.** Five portable arsenic water analyzers were tested in January and February, the second round of verification testing for the category. For information about the test, contact Patricia White, 781-952-5279 or [whitepj@battelle.org](mailto:whitepj@battelle.org).